

FIG. 1

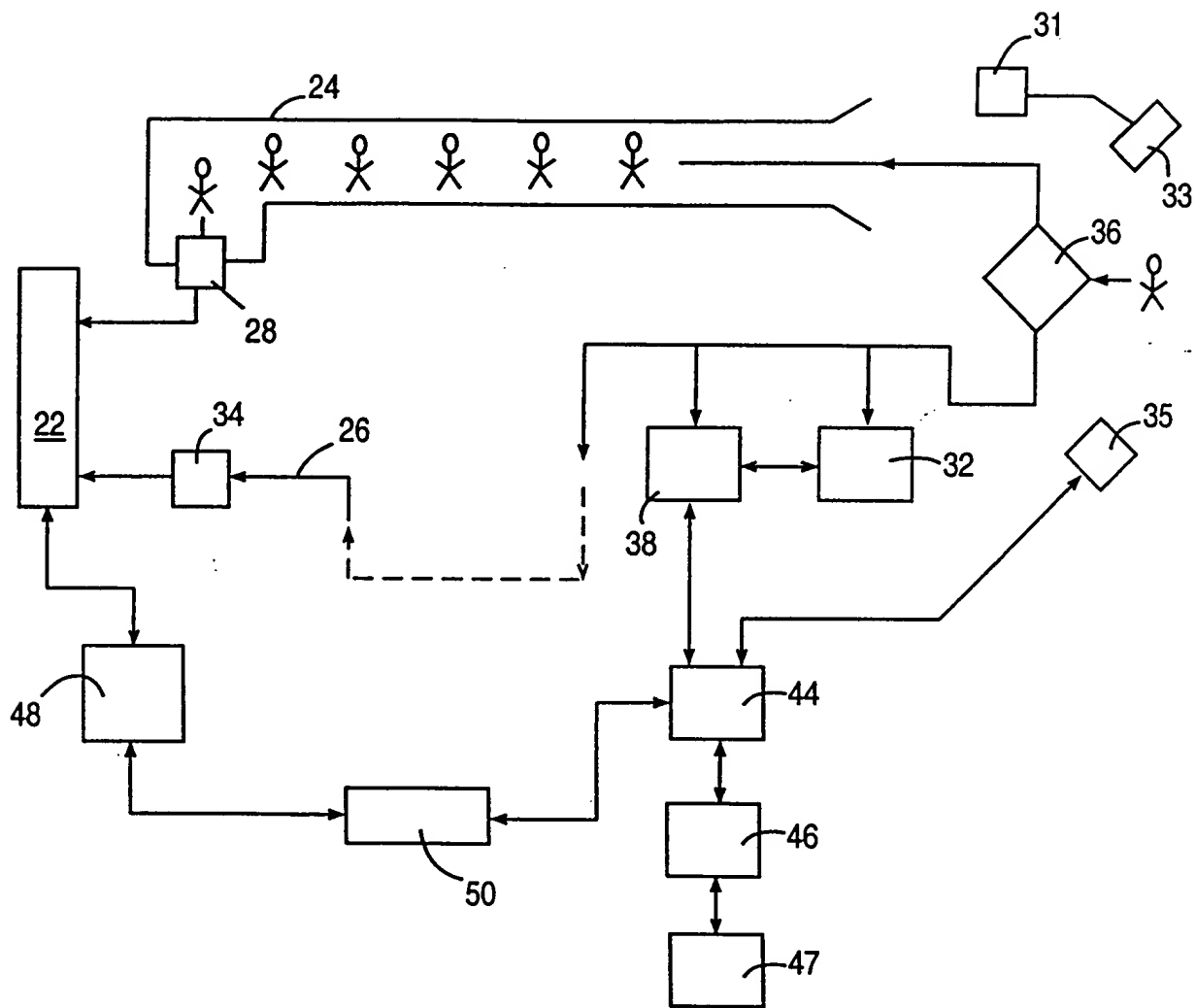


FIG. 2

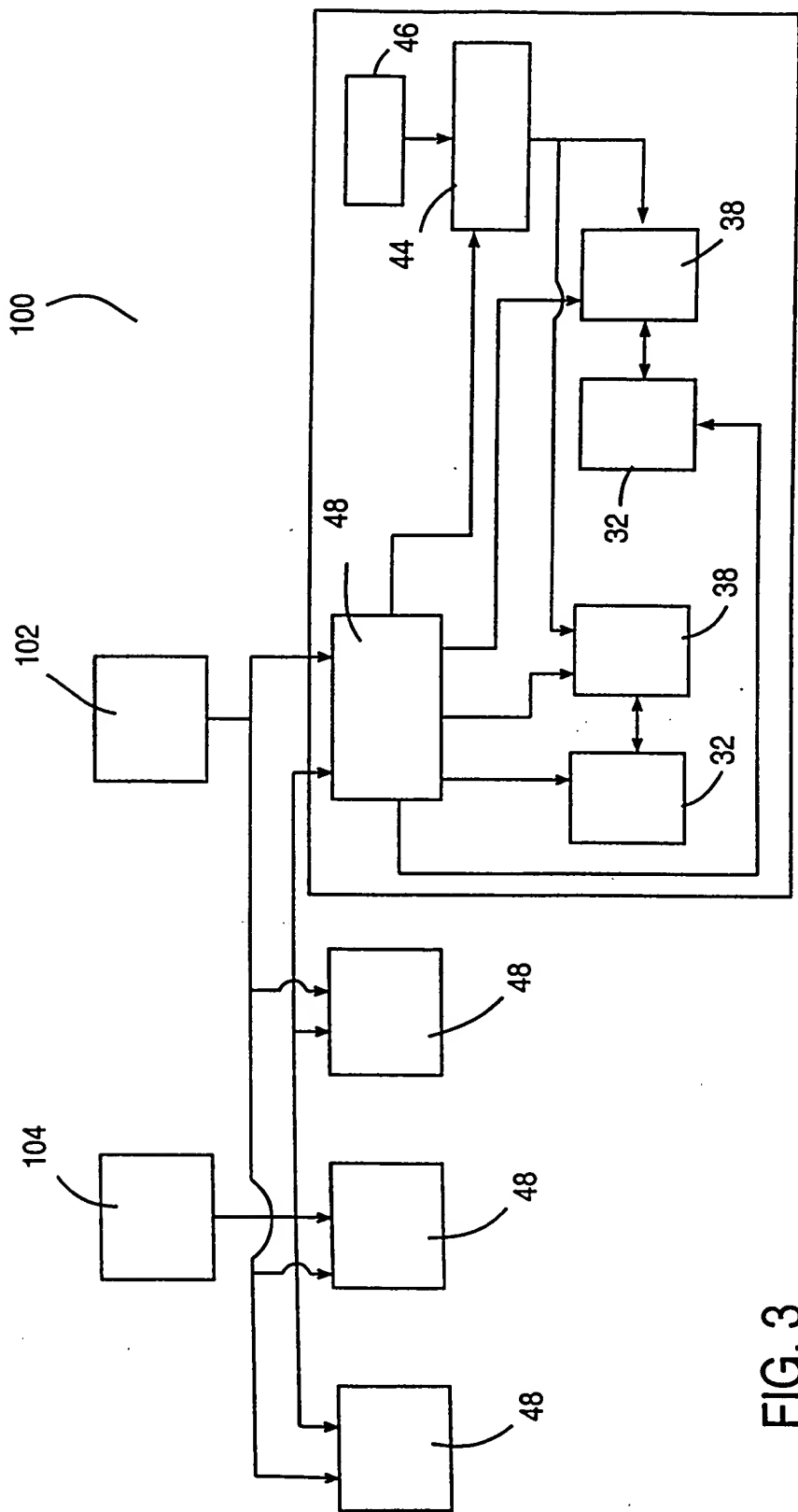


FIG. 3

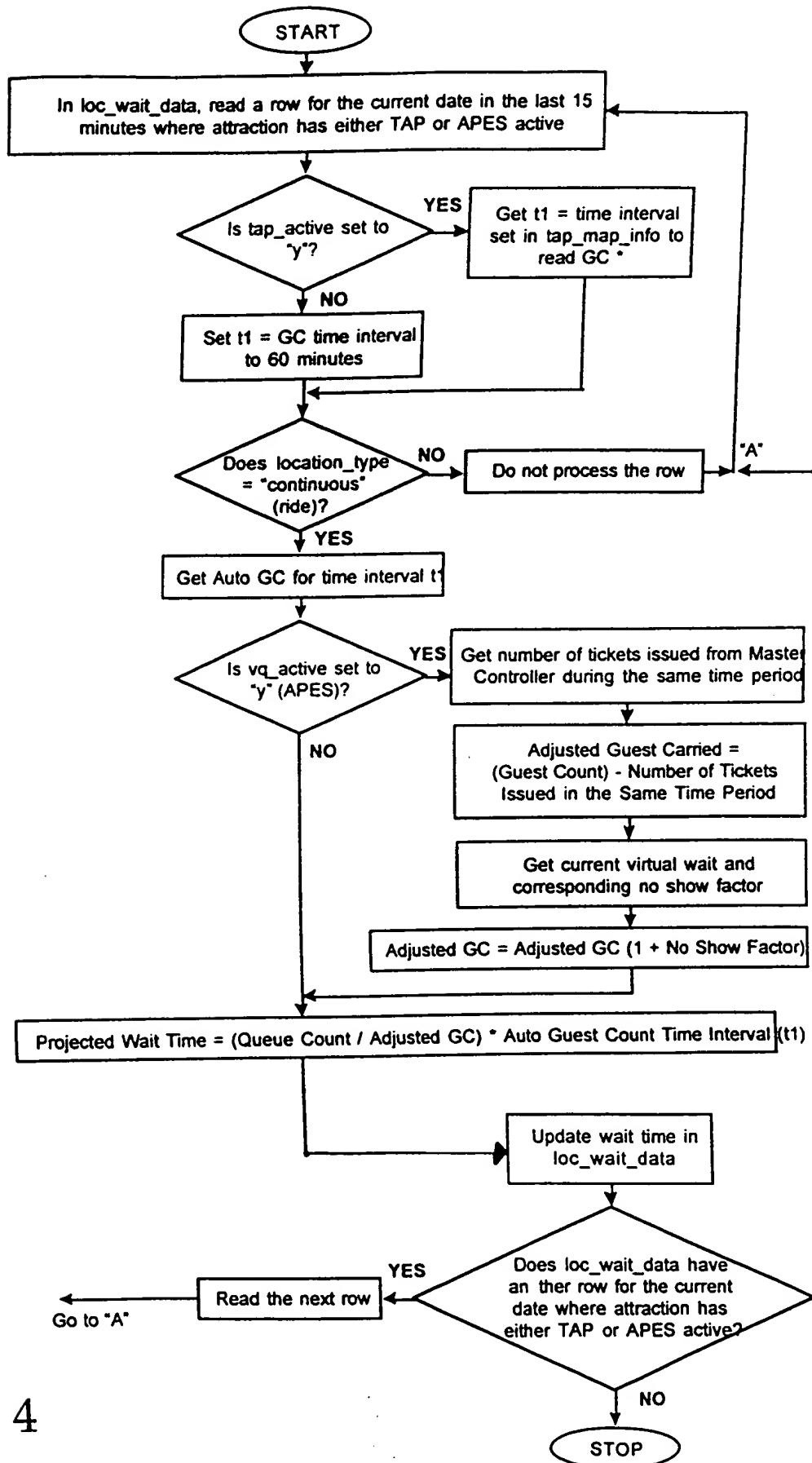


FIG. 4

Tables

Table Name	Table Definition
contr_feed_info	Information about feed from Master Controller
opsheet_feed_info	Information about feed from OpSheet
vq_cle_forecast_info	Forecasted capacity limiting event (CLE) information, to forecast guest count
vq_disp_rate_log	Dispense rate log information. A row is inserted every time the dispense rate is calculated.
vq_rror_log	Error log, for internal use only
vq_loc_daily_info	Location daily information, by location and date
vq_loc_port_info	Location-Port mapping table. To be updated by APES Admin only.
vq_loc_scenario	Location scenario override information for specific location, datetime and situation
vq_loc_schedule	Location calculation parameter schedule. Effective and expiration dates, along with schedule effective flag, specify whether to use schedule or default values.
vq_no_show_lookup	Lookup table for No Show factor, used in calculation of dispense rate. Defined for range of virtual queue wait time.
vq_scenario_info	Scenario setup information (Admin only)
vq_standby_wait	Standby wait information, for waitfree locations only

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FIG. 5A

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Column Table Name	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
vq_cle_forecast	cle_type_id	integer	NULL	Capacity Limiting Event (CLE) type; usually 'U' indicating unit change	No	No
vq_cle_forecast	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_cle_forecast	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_cle_forecast	reading_time	integer	NULL	Time of "units" reading	No	No
vq_cle_forecast	vq_cle_forecast_id	serial	NOT NULL	Unique identifier (generated by the system) for CLE forecast information	Yes	No
vq_cle_forecast	vq_dispense_rate	integer	NULL	Dispense rate for given unit values	No	No
vq_cle_forecast	vq_loc_cle_type_id	integer	NULL	Type of CLE: Open, Close, Unit Change, Show, etc.	No	No
vq_cle_forecast	vq_loc_daily_id	integer	NOT NULL	Unique identifier (generated by the system) for location daily information	No	Yes
vq_cle_forecast	vq_loc_utilization	integer	NULL	Utilization of location (eg. 80% utilization means the actual guest carried is 80% of total guest capacity)	No	No
vq_cle_forecast	vq_value_1	integer	NULL	Number of units	No	No
vq_cle_forecast	vq_value_2	integer	NULL	Number of special need units	No	No
vq_contr_feed_info	business_date	date	NULL	PC business date when feed was sent	No	No
vq_contr_feed_info	controller_feed_id	serial	NOT NULL	Unique serial ID (generated by the system) that identifies the Master Controller feed information	Yes	No
vq_contr_feed_info	error_no	integer	NULL	Error number from turnstile	No	No
vq_contr_feed_info	guest_window_end	datetime HOUR to MINUTE	NULL	Guest window end datetime, as printed on virtual queue (VQ) ticket	No	No
vq_contr_feed_info	guest_window_start	datetime HOUR to MINUTE	NULL	Guest window start datetime, as printed on VQ ticket	No	No
vq_contr_feed_info	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_contr_feed_info	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_contr_feed_info	no_of_tkt_issued	integer	NULL	Number of tickets issued in (?) time frame	No	No
vq_contr_feed_info	printer_number	char(2)	NULL	Printer number for VQ	No	No
vq_contr_feed_info	reading_time	integer	NULL	PC business time when feed sent, 0 to 2400	No	No

FIG. 5B

Column Table Name	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
vq_contr_feed_info	vq_curr_wait_time	integer	NULL	Current wait time in minutes (eg. 130 minutes)	No	No
vq_contr_feed_info	vq_disp_time_int	smallint	NULL	Ticket dispense time interval	No	No
vq_contr_feed_info	vq_dispense_rate	integer	NULL	Ticket dispense rate	No	No
vq_contr_feed_info	vq_gst_win_minutes	integer	NULL	Guest window minutes (the difference between guest window start and end; eg. 60 minutes)	No	No
vq_contr_feed_info	vq_guest_count	integer	NULL	VQ guest count (?)	No	No
vq_contr_feed_info	vq_loc_port_id	integer	NULL	Unique serial ID (generated by the system) that identifies the location/attraction	No	Yes
vq_contr_feed_info	vq_mc_processed	char(1)	NULL	Whether Master Controller information is processed by OpSheet (Y/N)	No	No
vq_contr_feed_info	vq_min_wait_time	smallint	NULL	Minimum wait time set for the attraction (eg. 40 minutes)	No	No
vq_disp_rate_log	dis_reduction_fact	smallint	NULL	Factor by which distribution of ticket dispensing should be reduced during downtime	No	No
vq_disp_rate_log	dispense_rate	integer	NULL	Virtual queue ticket dispense rate	No	No
vq_disp_rate_log	forecast_gc	integer	NULL	Forecasted guest carried, used in calculations	No	No
vq_disp_rate_log	forecast_time_min	smallint	NULL	Time interval to forecast guest count	No	No
vq_disp_rate_log	last_update_time	datetime YEAR to FRACTION(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_disp_rate_log	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_disp_rate_log	location_id	integer	NULL	OpSheet location ID, from location_info	No	No
vq_disp_rate_log	noshow_factor_pcnt	smallint	NULL	Percent of people that do not show up for a given virtual wait time, applied in the calculations to adjust dispense rate	No	No
vq_disp_rate_log	percent_capacity	smallint	NULL	Percent of location's total capacity for VQ (eg. 80%)	No	No
vq_disp_rate_log	thrc	integer	NULL	Location's theoretical hourly ride capacity (THRC)	No	No
vq_disp_rate_log	utilization_pcnt	smallint	NULL	Location utilization percent, used for computing actual capacity from THRC	No	No
vq_disp_rate_log	value_1	smallint	NULL	Number of regular units for cast d	No	No
vq_disp_rate_log	vq_disp_rat_id	serial	NOT NULL	Unique identifier for dispense rate log	Yes	No
vq_disp_rat_log	vq_disp_tim_int	smallint	NULL	Dispense time interval (eg. 5)	No	No

FIG. 5C

Column Table Name	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
				minutes)		
vq_disp_rate_log	vq_loc_port_id	integer	NOT NULL	Unique identifier for APES location	No	Yes
vq_error_log	comments	varchar(80)	NULL	Error log description	No	No
vq_error_log	error_log_id	serial	NOT NULL	System-generated error log ID	Yes	No
vq_error_log	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_error_log	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_error_log	program_name	char(30)	NULL	Name of program on which error occurred	No	No
vq_error_log	sql_isamcode	integer	NULL	SQL ISAM error code	No	No
vq_error_log	sqlcode	integer	NULL	SQL error code	No	No
vq_error_log	vq_lan_address	char(2)	NULL	LAN address, as specified by Ride and Show for the location Master Controller (MC)	No	No
vq_error_log	vq_loc_port_id	integer	NULL	Location identifier on which error occurred	No	No
vq_error_log	vq_park_address	char(2)	NULL	Park address. May be different from park code, specified by Ride and Show for location MC.	No	No
vq_loc_daily_info	business_date	date	NULL	Business date	No	No
vq_loc_daily_info	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_loc_daily_info	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_loc_daily_info	vq_loc_daily_id	serial	NOT NULL	Unique identifier (generated by the system) for location daily information	Yes	No
vq_loc_daily_info	vq_loc_port_id	integer	NULL	Unique identifier for location	No	Yes
vq_loc_port_info	dis_reduction_fact	smallint	NULL	Factor by which distribution of ticket dispensing should be reduced during downtime	No	No
vq_loc_port_info	do_abuse_check	char	NULL	Whether abuse check should be performed or not	No	No
vq_loc_port_info	downtime_effective	char	NULL	Flag to indicate whether downtime is currently effective	No	No
vq_loc_port_info	forecast_time_min	integer	NULL	Guest count forecast time interval (usually 60 minutes)	No	No
vq_loc_port_info	ftp_arg1	char(10)	NULL	ftp user-id to connect to Bridge server	No	No
vq_loc_port_info	ftp_arg2	char(10)	NULL	ftp password to connect to Bridge server	No	No
vq_loc_port_info	ftp_script_name	varchar(50)	NULL	ftp script to trigger ftp data	No	No

FIG. 5D

Column Table Name	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
				from Parks-APES server to Bridge server		
vq_loc_port_info	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_loc_port_info	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_loc_port_info	location_number	char(4)	NOT NULL	Location number (as used by IEs in OpSheet)	No	No
vq_loc_port_info	origin_id	integer	NOT NULL	Origin identifier of park, as in OpSheet	No	No
vq_loc_port_info	override_effective	char	NULL	Flag to indicate whether scenario override is effective	No	No
vq_loc_port_info	park_code	char(2)	NULL	Park code: AK, MK, EC, ST	No	No
vq_loc_port_info	percent_capacity	smallint	NULL	Percent of the location's total capacity for VQ (eg. 80%)	No	No
vq_loc_port_info	schedule_effective	char	NULL	Flag to indicate whether scenario schedule is effective	No	No
vq_loc_port_info	server_name	varchar(30)	NOT NULL	Name of the Bridge server dedicated to this location/attraction	No	No
vq_loc_port_info	survey_time_min	integer	NULL	Survey time in minutes (same as forecasted time in minutes)	No	No
vq_loc_port_info	vq_close_time	datetime HOUR to MINUTE	NULL	Actual close time of attraction	No	No
vq_loc_port_info	vq_disp_time_int	smallint	NULL	Dispense time interval in minutes, used to increase the guest window	No	No
vq_loc_port_info	vq_gst_win_min	integer	NULL	Minutes during which guest can visit the location. Time is between guest_window_start and guest_window_end.	No	No
vq_loc_port_info	vq_lan_address	char(2)	NOT NULL	Attraction name (coded) where VQ is functional	No	No
vq_loc_port_info	vq_loc_port_id	serial	NOT NULL	Unique serial ID (generated by the system) that identifies the VQ attraction/park	Yes	No
vq_loc_port_info	vq_loc_utilization	smallint	NULL	Location utilization percent, used for computing actual capacity from THRC	No	No
vq_loc_port_info	vq_max_gst_count	integer	NULL	Maximum guest count used in the calculations for dispense rate	No	No
vq_loc_port_info	vq_min_before_cls	integer	NULL	Number of minutes before close to stop printing VQ tickets	No	No
vq_loc_port_info	vq_min_down_time	integer	NULL	Minimum down time to be used while creating downtime	No	No

FIG. 5E

Column Table Name	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
				scenario		
vq_loc_port_info	vq_min_gst_count	integer	NULL	Minimum guest count used in the calculations for dispense rate	No	No
vq_loc_port_info	vq_min_wait_time	integer	NULL	Minimum virtual wait time (eg. 40 minutes)	No	No
vq_loc_port_info	vq_park_address	char(2)	NOT NULL	Park name (coded) where VQ is functional	No	No
vq_loc_port_info	vq_soft_close_time	datetime HOUR to MINUTE	NULL	The time at which VQ stops printing tickets (close_time - min_before_cls)	No	No
vq_loc_scenario	expected_uptime	integer	NULL	Expected uptime (absolute) from location down situation	No	No
vq_loc_scenario	gst_win_minutes	smallint	NULL	Guest window (in minutes)	No	No
vq_loc_scenario	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_loc_scenario	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_loc_scenario	percent_capacity	smallint	NULL	Percent of location's total capacity for VQ (eg. 80%)	No	No
vq_loc_scenario	vq_disp_time_int	smallint	NULL	VQ ticket dispense time interval (5 minutes)	No	No
vq_loc_scenario	vq_dispense_rate	integer	NULL	Number of tickets to dispense in vq_disp_time_int	No	No
vq_loc_scenario	vq_loc_port_id	integer	NULL	Unique location identifier	No	Yes
vq_loc_scenario	vq_loc_scenario_id	serial	NOT NULL	Unique identifier (generated by the system) for location scenario information	Yes	No
vq_loc_scenario	vq_scenario_id	integer	NOT NULL	Unique scenario identifier	No	Yes
vq_loc_scenario	vq_scn_eff_date	date	NULL	Scenario effective date	No	No
vq_loc_scenario	vq_scn_eff_time	integer	NULL	Scenario effective time	No	No
vq_loc_schedule	effective_date	date	NULL	Schedule effective datetime	No	No
vq_loc_schedule	effective_time	datetime HOUR to MINUTE	NULL	Schedule effective time	No	No
vq_loc_schedule	expiration_date	date	NULL	Schedule expiration datetime	No	No
vq_loc_schedule	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_loc_schedule	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_loc_schedule	percent_capacity	smallint	NULL	Percent capacity used for VQ guest count calculations	No	No
vq_loc_schedule	vq_close_time	datetime hour to minute	NULL	Actual close time of the attraction	No	No
vq_loc_schedule	vq_disp_time_int	smallint	NULL	VQ ticket dispense time	No	No

FIG. 5F

Column Table Nam	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
				interval (in minutes)		
vq_loc_schedule	vq_dispense_rate	integer	NULL	VQ ticket dispense rate	No	No
vq_loc_schedule	vq_gst_win_min	integer	NULL	Guest window (in minutes)	No	No
vq_loc_schedule	vq_loc_port_id	integer	NOT NULL	Unique serial ID (generated by the system) that identifies the VQ attraction/park	No	Yes
vq_loc_schedule	vq_loc_schedule_id	serial	NOT NULL	Unique serial ID (generated by the system) that identifies the attraction schedule	Yes	No
vq_loc_schedule	vq_wait_time	integer	NULL	Current virtual queue wait time	No	No
vq_no_show_lookup	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_no_show_lookup	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_no_show_lookup	noshow_factor_pcnt	smallint	NOT NULL	Percent factor to be used to adjust Distribution Percent (DPS). Increment dispense rate by this factor.	No	No
vq_no_show_lookup	vq_loc_port_id	integer	NOT NULL	Unique serial ID (generated by the system) that identifies the VQ attraction/park	No	Yes
vq_no_show_lookup	vq_no_show_id	serial	NOT NULL	System-generated ID value for no show	Yes	No
vq_no_show_lookup	vq_wait_minutes_fm	smallint	NOT NULL	VQ wait minutes from	No	No
vq_no_show_lookup	vq_wait_minutes_to	smallint	NOT NULL	VQ wait minutes to	No	No
vq_opsheet_feed	business_date	date	NULL	Current business date	No	No
vq_opsheet_feed	feed_type	char(1)	NULL	Indicates if this is an OpSheet_feed(O), override row from scenario(S), downtime override (D)	No	No
vq_opsheet_feed	feed_write_time	datetime hour to second	NULL	Time at which OpSheet performed write/sent the file	No	No
vq_opsheet_feed	guest_window_end	datetime hour to minute	NULL	Guest window end time	No	No
vq_opsheet_feed	guest_window_start	datetime hour to minute	NULL	Guest window start time	No	No
vq_opsheet_feed	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_opsheet_feed	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_opsheet_feed	opsheet_feed_id	serial	NOT NULL	Unique serial ID (generated by the system) for opsheet_feed_info table	Yes	No

FIG. 5G

Column Table Name	Column Name	Column Datatype	Column Null Option	Column Comment	Column Is PK	Column Is FK
vq_opsheet_feed	vq_curr_wait_time	integer	NULL	Current virtual wait time (in minutes)	No	No
vq_opsheet_feed	vq_disp_time_int	smallint	NULL	Dispense time interval (eg. 5 minutes)	No	No
vq_opsheet_feed	vq_dispense_rate	integer	NULL	Ticket dispense rate, as recommended by OpSheet	No	No
vq_opsheet_feed	vq_gst_win_minutes	integer	NULL	VQ guest window minutes (eg. 60 minutes)	No	No
vq_opsheet_feed	vq_guest_count	integer	NULL	Guest count to be used for all calculations	No	No
vq_opsheet_feed	vq_loc_port_id	integer	NOT NULL	Unique serial ID (generated by the system) for vq_loc_port_info table	No	Yes
vq_opsheet_feed	vq_loc_scenario_id	integer	NULL	Unique identifier (generated by the system) for location scenario information	No	Yes
vq_opsheet_feed	vq_min_wait_time	integer	NULL	Minimum wait time at virtual queue (eg. 40 minutes)	No	No
vq_opsheet_feed	vq_ops_processed	char(1)	NULL	Row processed (sent to Bridge server for Master Controller), Y/N	No	No
vq_scenario_info	last_update_time	datetime year to fraction(5)	NOT NULL	Datetime when the record was last updated	No	No
vq_scenario_info	last_update_user	char(8)	NOT NULL	User ID that updated the record last	No	No
vq_scenario_info	scenario_desc	varchar(60)	NULL	Scenario description	No	No
vq_scenario_info	scenario_name	char(25)	NULL	Unique scenario name, not associated with any attraction	No	No
vq_scenario_info	vq_scenario_id	serial	NOT NULL	Unique identifier (generated by the system) for scenario information	Yes	No

FIG. 5H

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Location Down Time [X]

Park **Loc Port ID: 2**
Minimum Down Time: 15

Location

Expected Up Time **Execute**

[up] [down]

Current Time
4/23/99 11:09:12

FIG. 6

FIG. 7A

Wait Free Administration

Park

DISNEY'S ANIMAL KINGDOM

Location

WILDLIFE EXPRESS - CONSERVATION STATION

2

Daily Forecast

No Show LookUp

Location Scheduling

← April 1999 →

←← →→

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

4

Time	Value 1	Value 2	Dispense Rate	Loc Utilization
08:00				

FIG. 7A

FIG. 7B

Wait Free Administration

Park: DISNEY'S ANIMAL KINGDOM Location: WILDLIFE EXPRESS - CONSERVATION STATION 2

Daily Forecast No Show LookUp Location Scheduling

Loc Port Id	No Show Id	Dntime Minutes Frn	Dntime Minutes To	Noshow Factor Pcnt	Last Update User
2	1	8	30	10	DDJ1
2	2	31	60	15	DDJ1
2	3	61	200	18	DDJ1

Wait Free Administration

Park: DISNEY'S ANIMAL KINGDOM Location: WILDLIFE EXPRESS - CONSERVATION STATION 2

Daily Forecast No Show LookUp Location Scheduling

Loc Port Id	Loc Schedule Id	Effective Date	Expiration Date	Effective Time	%Capacity
2	1	02/02/99	5/1/99	10:20	

FIG. 7C

: WaitFree Location Information				Close	
Park		Override Effective	Do Abuse Check	Schedule Effective	Save
DISNEY'S ANIMAL KINGDOM					
Location					
WILDLIFE EXPRESS - CONSERVATION STATION			Y		
Override Effective:	<input type="checkbox"/>	Min Wait Time:	<input type="text" value="40"/>	Min Down Time:	<input type="text" value="15"/>
Schedule Effective:	<input type="checkbox"/>	Dis Reduction Fact:	<input type="text" value="10"/>	Percent Capacity:	<input type="text" value="80"/>
Downtime Effective:	<input type="text" value="N"/>	Min Gst Count:	<input type="text" value="1800"/>	Disp Time Int:	<input type="text" value="5"/>
Do Abuse Check:	<input checked="" type="checkbox"/>	Max Gst Count:	<input type="text" value="2400"/>	Forecast Time Min:	<input type="text" value="60"/>
Minutes Before Close:	<input type="text"/>	Loc Utilization:	<input type="text" value="75"/>	Close Time:	<input type="text" value="21:45"/>
Last Update:	PRS2	4/22/99 17:48:35	Soft Close Time:	<input type="text"/>	

FIG. 8

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: Location Port Information					
Loc	Park	Lan	Location	Origin	Server Name
2	AK	01	WILDLIFE EXPRESS - CONSERVATION STATION	DISNEY'S ANIMAL KINGDOM	ct-server

Vq Loc Port Id: 2	Do Abuse Check: <input checked="" type="checkbox"/>	Override Effective: <input type="checkbox"/>	Min Wait Time: <input type="text" value="40"/>
Park Address: <input type="text" value="01"/>	Vq Close Time: <input type="text" value="21:45:00"/>	Schedule Effective: <input type="checkbox"/>	Dis Reduction Fact: <input type="text" value="10"/>
Lan Address: <input type="text" value="01"/>	Soft close time: <input type="text"/>	Downtime Effective: <input checked="" type="checkbox"/>	Min Gst Count: <input type="text" value="1800"/>
Location Number: <input type="text" value="WE - Cons S"/>	Minutes before closing: <input type="text"/>		Max Gst Count: <input type="text" value="2400"/>
Origin: <input type="text" value="DISNEY'S ANIMAL KINGDOM"/>	Vq Disp Time Int: <input type="text" value="5"/>		Min Down Time: <input type="text" value="15"/>
Server Name: <input type="text" value="ctxserver"/>	Forecast Time Min: <input type="text" value="60"/>		Percent Capacity: <input type="text" value="80"/>
Park Code: <input type="text" value="AK"/>	Survey Time Min: <input type="text" value="60"/>		Loc Utilization: <input type="text" value="75"/>
Ftp Script Name: <input type="text" value="ctx"/>	Ftp Arg1: <input type="text"/>	Ftp Arg2: <input type="text"/>	
Last Update User: <input type="text" value="PRS2"/>	<input type="text" value="4/22/99 17:48:35"/>		

FIG. 9

Master Server Feed to Master Controller

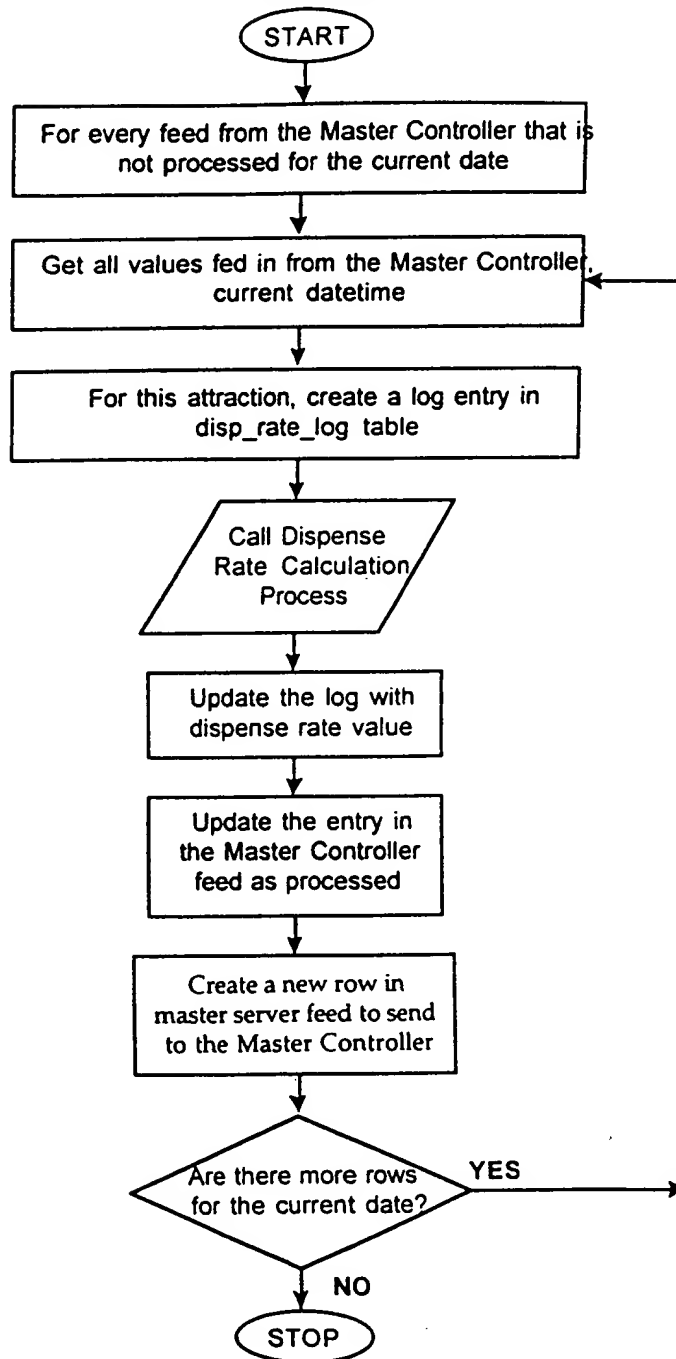


FIG. 10

Master Controller Feed to Master Server

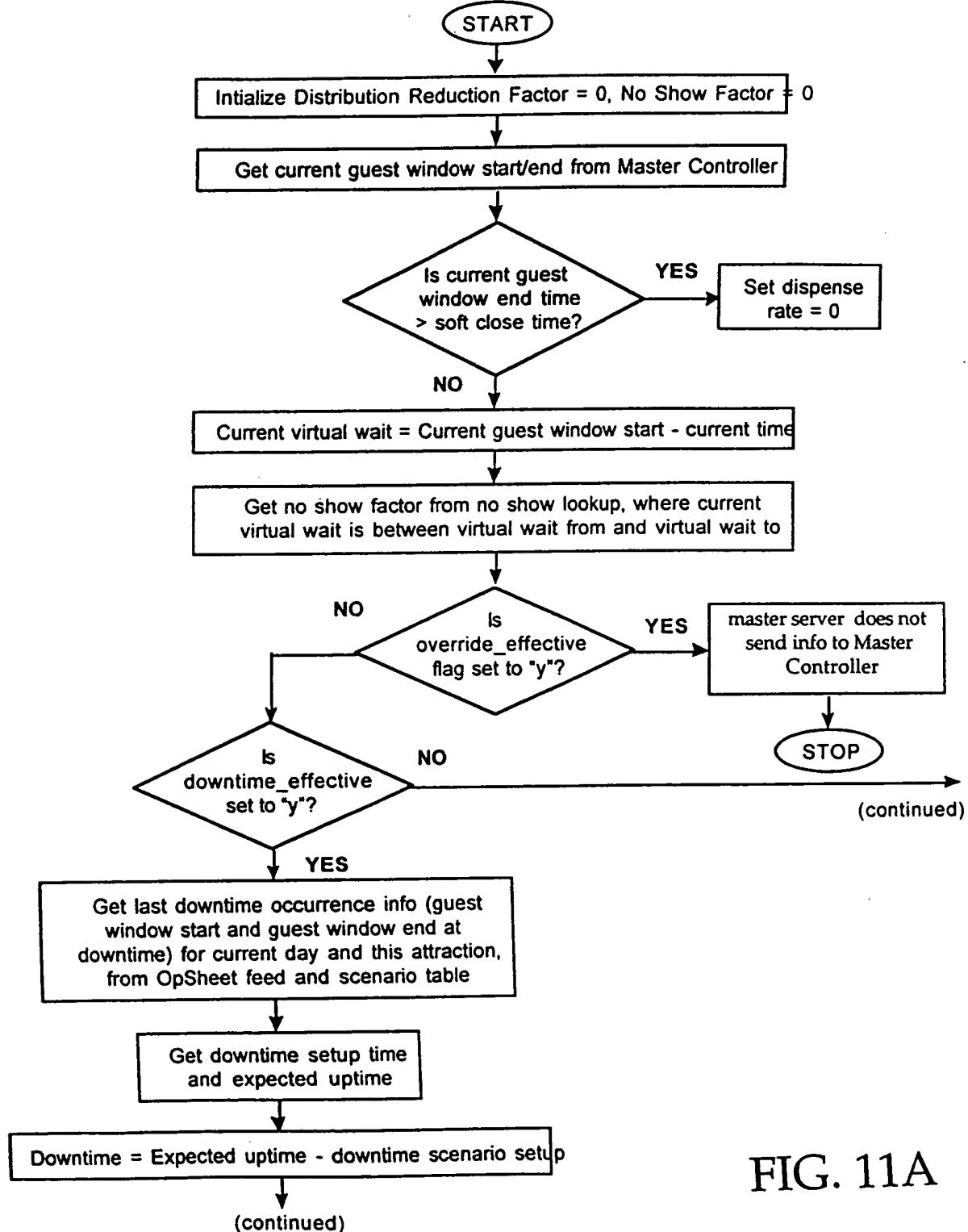


FIG. 11A

Master Controller Feed to Master Server

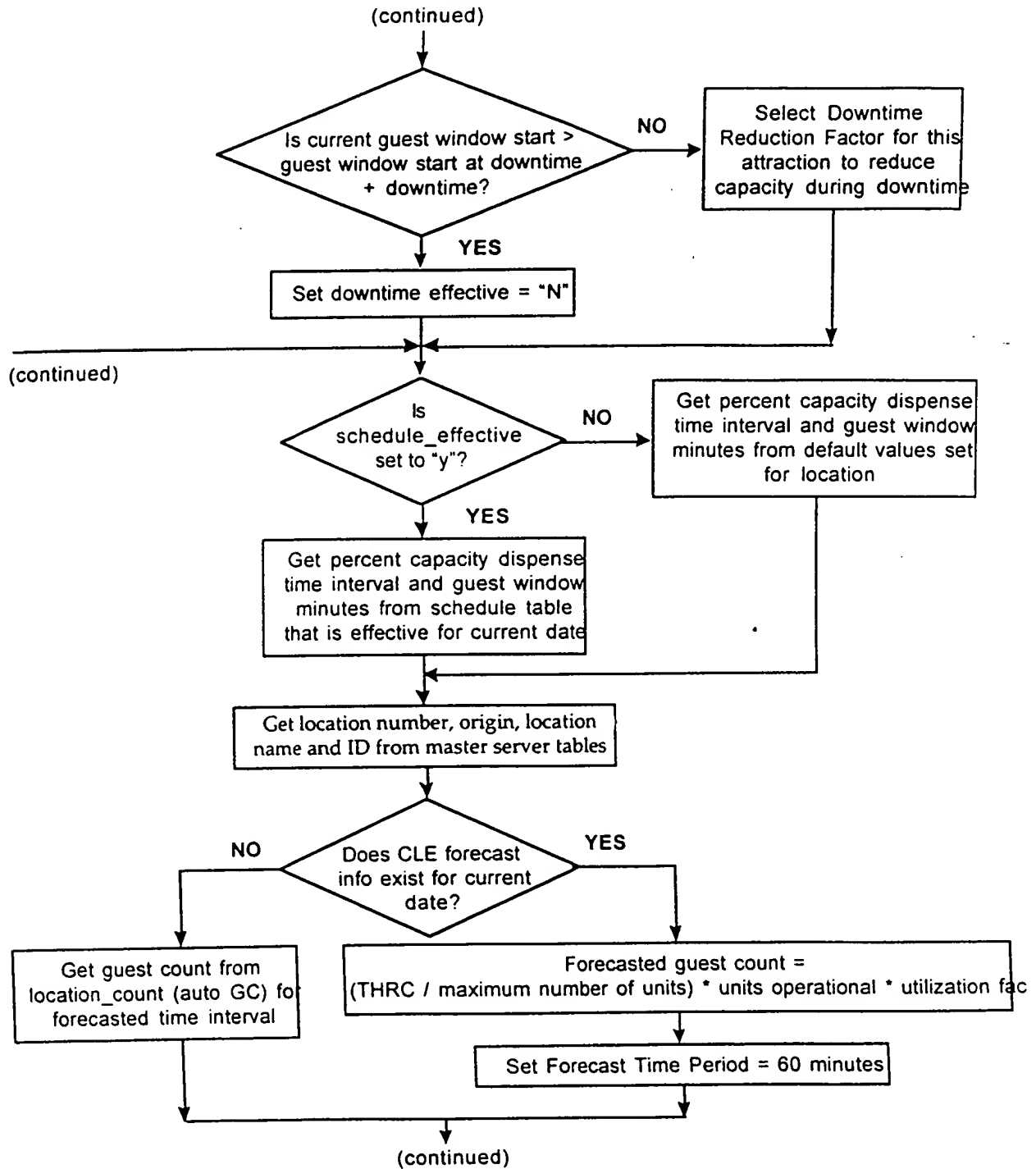


FIG. 11B

Master Controller Feed to Master Server

(continued)

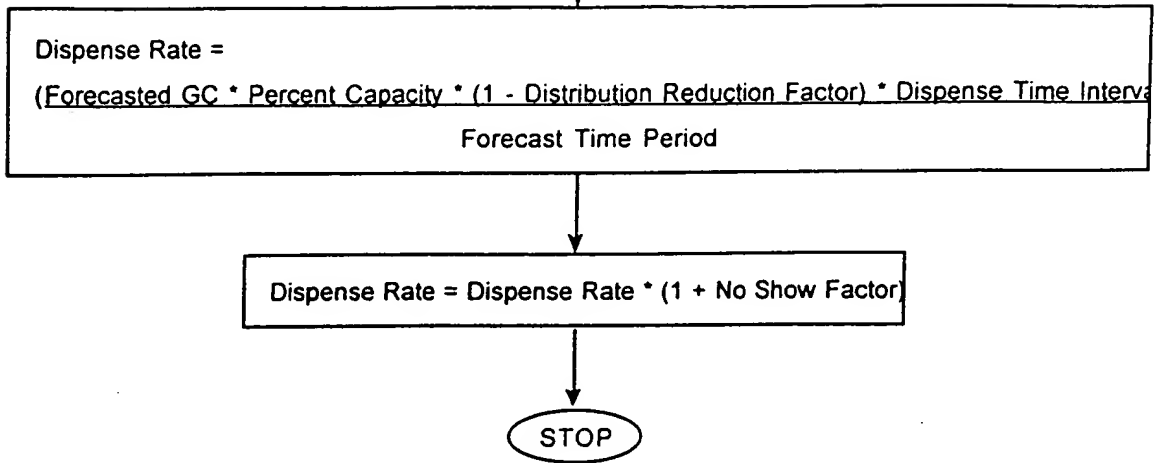


FIG. 11C

PARK ENTRANCE

TURNSTILE

TICKET READER
204

202

ATTRACTION

FIRST VALIDATOR
TICKET READER
232

PASS PRINTER
238

ATTRACTION
INPUTS

200

PARK ADMISSION
CONTROLLER AND
DATABASE

MASTER
CONTROLLER
244

ALGORITHM
PROCESSOR
250

FIG. 12

*VALIDATION

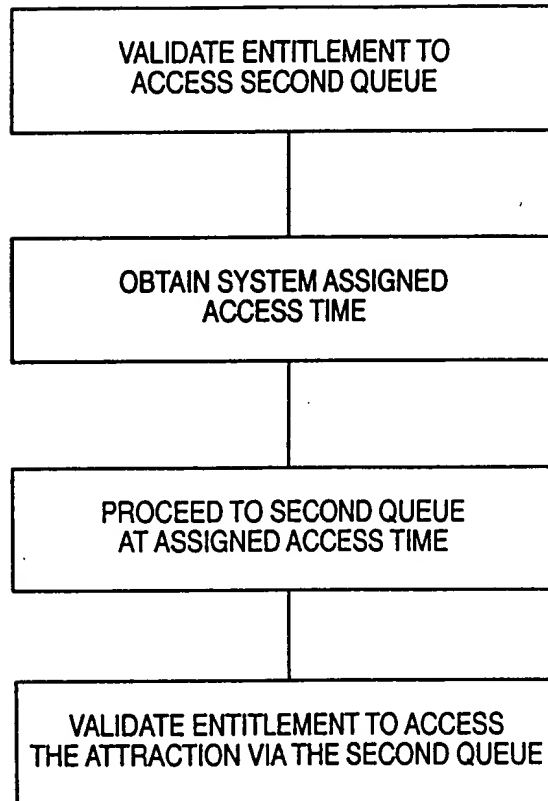



FIG. 13

Figure 14

300


Valid For Entry Between 2:45 pm AND 3:15 pm
Don't Miss The Special Hollywood Character's Parade on Mickey Avenue Starting at 2:15! Buy one meal, get the second free at the 50¢ Prime Time Café between 2:00 and 3:00 pm Today Only
1/1/2000 2:00 pm

310

315

320

325

330

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